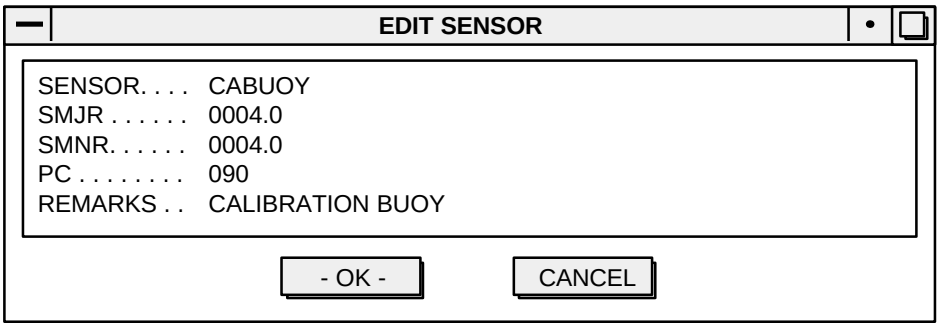

Figure 11.23-43 Add Sensor Window

Use the EDIT SENSOR window to edit the AOU ellipse data for a sensor. The following fields are shown in the window:

SENSOR
Name of the sensor. This field cannot be edited.

SMJR
Semi-major axis for the area of uncertainty associated with this sensor.

SMNR
Semi-minor axis for the area of uncertainty associated with this sensor.

PC
Percent containment value. The percentage of time (90%) that the estimated area of uncertainty will "cover" the true position of the track.

REMARKS
Shows any comments about the sensor, such as the full name of the sensor. This field cannot be edited.

Click OK to accept changes or click CANCEL to discard them. Clicking either button returns to the SENSOR TABLE window.

11.23.19.2 SENSOR TABLE Pop-Up Menu

Options available on the SENSOR TABLE pop-up menu (ADD, EDIT, DELETE, OK, SELECT ALL, UNSELECT ALL, ARCHIVE, RESTORE, PRINT, and CANCEL), perform as described in *Summary of Common Operations.*

11.23.20 SOURCE CODE TABLE

Use the SOURCE CODE TABLE option to maintain a table of source codes.

- Codes identify the source of information used to detect a track for a report.
- This table is shown as a list of available choices for the SOURCE field when entering a position report for tracks.

Select SOURCE CODE TABLE from the TRACK TABLES cascading menu to open the SOURCE TABLE window (Figure 11.23-44).

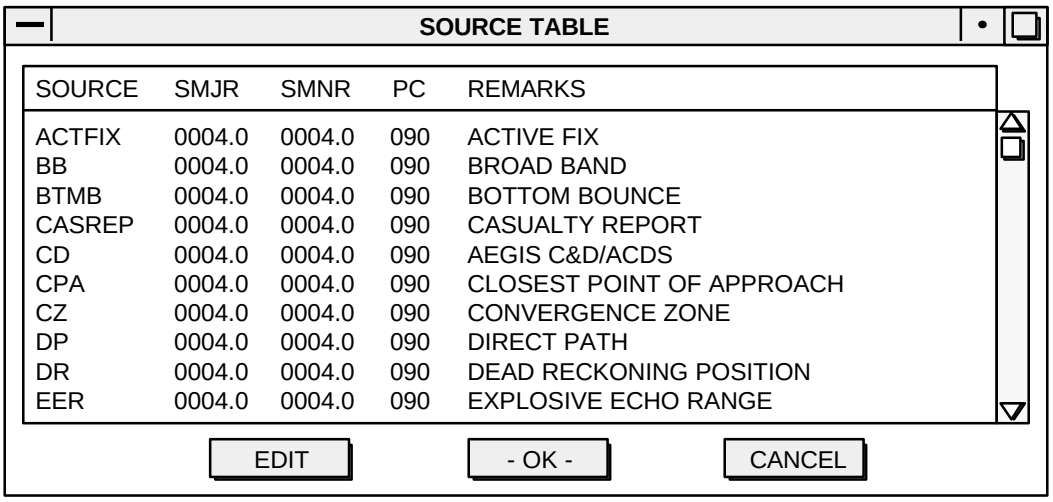

Figure 11.23-44 Source Table Window

SOURCE TABLE Window Buttons

EDIT—a sensor record. Described in *Edit Source Record.*

OK—save changes to source records. New/changed data appears in the SOURCE TABLE window, but is not permanently saved until OK is clicked from this window.

CANCEL—discard changes and exit the option.

11.23.20.1 Edit Source Record

Select a record from the SOURCE TABLE window and click EDIT to open the EDIT SOURCE window (Figure 11.23-45).

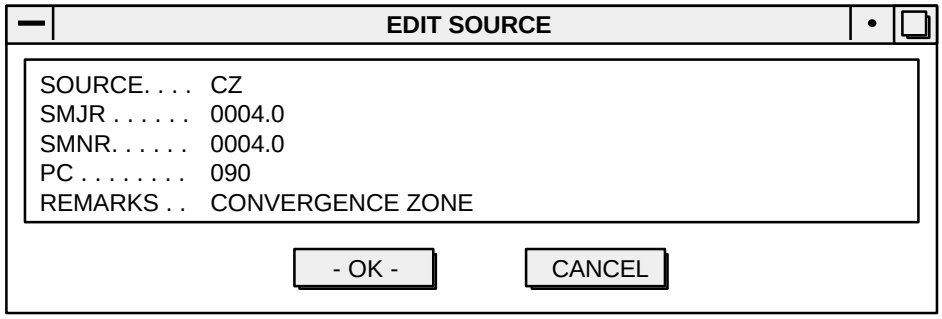

Figure 11.23-45 Add Source Window

Use the following fields in the EDIT SOURCE window to edit the AOU ellipse data for a source:

SOURCE
Name of the source. This field cannot be edited.

SMJR
Semi-major axis for the area of uncertainty associated with this source.

SMNR
Semi-minor axis for the area of uncertainty associated with this source.

PC
Percent containment value. The percentage of time (90%) that the estimated area of uncertainty will "cover" the true position of the track.

REMARKS
Shows any comments about the source code, such as the full name of the source. This field cannot be edited.

Click OK to accept changes or click CANCEL to discard them. Clicking either button returns to the SOURCE TABLE window.

11.23.20.2 SOURCE TABLE Pop-Up Menu

Options available on the SOURCE TABLE pop-up menu (ADD, EDIT, DELETE, OK, SELECT ALL, UNSELECT ALL, ARCHIVE, RESTORE, PRINT, and CANCEL), perform as described in Summary of Common Operations .

11.24 LINK CONTROLS

Use the LINK CONTROLS option to perform such Link track operations as:

- Specify reference points for Link communications.
- Archive Link track reports.
- Set times to autodelete Link tracks.
- View the status of Link tracks in the system.

Select LINK CONTROLS from the TRACKS pull-down menu and choose one of the following options from the LINK CONTROLS cascading menu: LINK DLRPs, LINK ARCHIVE, LINK AUTODELETE, LINK STATUS and LINK FILTER.

11.24.1 LINK DLRPS

Use the LINK DLRPS option to specify a Data Link Reference Point (DLRP) for each of the four available Link communications networks.

Note: DLRP A must be used for ACDS, EDO, and IHEAD LINK 11 data. Only this DLRP will allow the STN and IFF data to be passed to the parent track when the operator NU TRACKs a LINK track.

DLRP B, C, and D may be used to display LINK tracks, but they cannot be NU TRACKED to be OTH tracks.

Select LINK DLRPS from the LINK CONTROLS cascading menu to open the LINK DLRP'S Window (Figure 11.24-1).

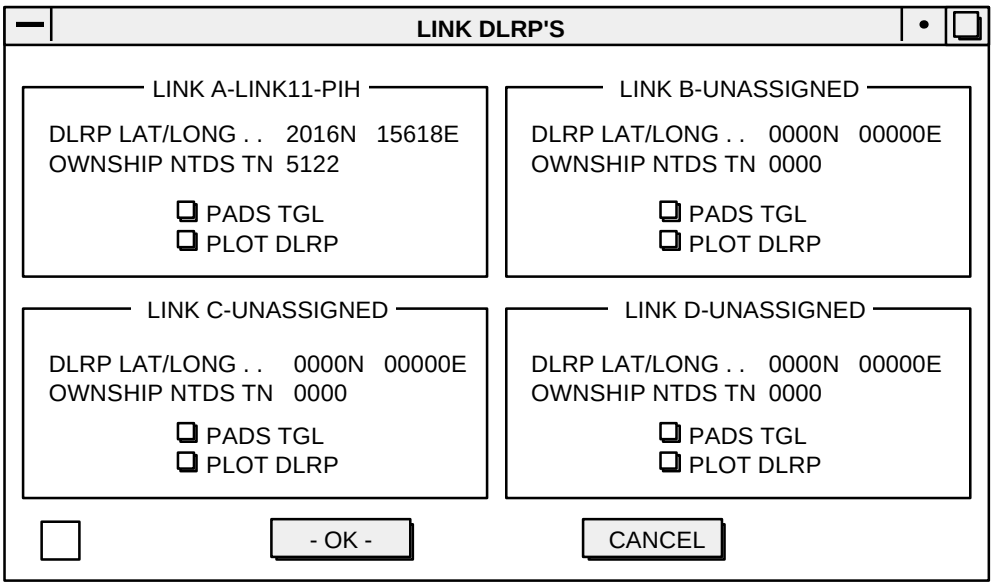

Figure 11.24-1 Link DLRPs Window

11.24.1.1 LINK DLRP Window Fields

For each of the Link communications networks in use, enter the appropriate Link DLRP information in the following fields of the associated Link box:

DLRP LAT/LONG
Latitude and longitude coordinates for the DLRP associated with the Link being defined.

OWNSHIP NTDS TN
Ownship Naval Tactical Display System (NTDS) track number (TN) for the reporting unit track.

- If Ownship is an active participant, then the PU number will be 1-76, or 100-176 for RUs.
- If Ownship is not an active participant in the Link, the track number will be from 200-7776.

Note: Closely monitor the track number representing Ownship on the Link. If an incorrect number is entered, the Link picture will not be accurately displayed.

PADS TGL
Click this checkbox ON to set an automatic pad to correct position errors.

If the reported track positions, relative to the DLRP, are slightly off the mark from their actual positions, toggle the PADS TGL checkbox ON to set an automatic pad to compensate for the error. (If the checkbox is left blank, errors will not be corrected.)

PLOT DLRP
Click this checkbox ON for the DLRP to appear on the tactical display.

A DLRP symbol with four colored boxes appears in the DLRP position, The appropriate Link letter (A, B, C, or D) is plotted above the symbol.

11.24.1.2 Edit Link DLRP Data

Edit existing Link DLRP data using one of the following methods:

- Select the LINK DLRPS option from the LINK CONTROLS cascading menu to open the LINK DLRP'S window.
- Double-click on a DLRP symbol to engage the LINK DLRP'S window.

Click OK to accept changes, or click CANCEL to discard them.

11.24.1.3 LINK DLRP'S Pop-Up Menu

Options available on the LINK DLRP'S pop-up menu (OK, ARCHIVE, RESTORE, PRINT, and CANCEL), perform as described in *Summary of Common Operations* .

11.24.2 LINK ARCHIVE

Use the LINK ARCHIVE option to archive Link tracks after a specified time period.

About the LINK ARCHIVE option

- Link track positions are not placed in the track database, as they come in to the system very rapidly and in abundance.
- Use the LINK ARCHIVE option to archive Link reports from various categories and threat status, and/or special Link-11 symbols at user-specified intervals.
  - For example, Link-11 might report several ships in the area with updates as often as every five seconds.
  - Using this option, an operator can set time periods to archive the ship positions for a specific interval, such as every ten minutes.
- The LINK ARCHIVE option contains a cascading menu with CAT/THREAT and MISC. LINK11 options.
  - CAT/THREAT—ACDS/Link tracks that use cat/threat symbology.
  - MISC. LINK11—Link-11 tracks that use special Link-11 symbology.

11.24.2.1 Cat/Threat Symbology—Link Archive Option

Select the CAT/THREAT cascading menu option from the LINK ARCHIVE cascading menu (LINK CONTROLS option) to open the LINK ARCHIVE window for Cat/Threat (Figure 11.24-2).

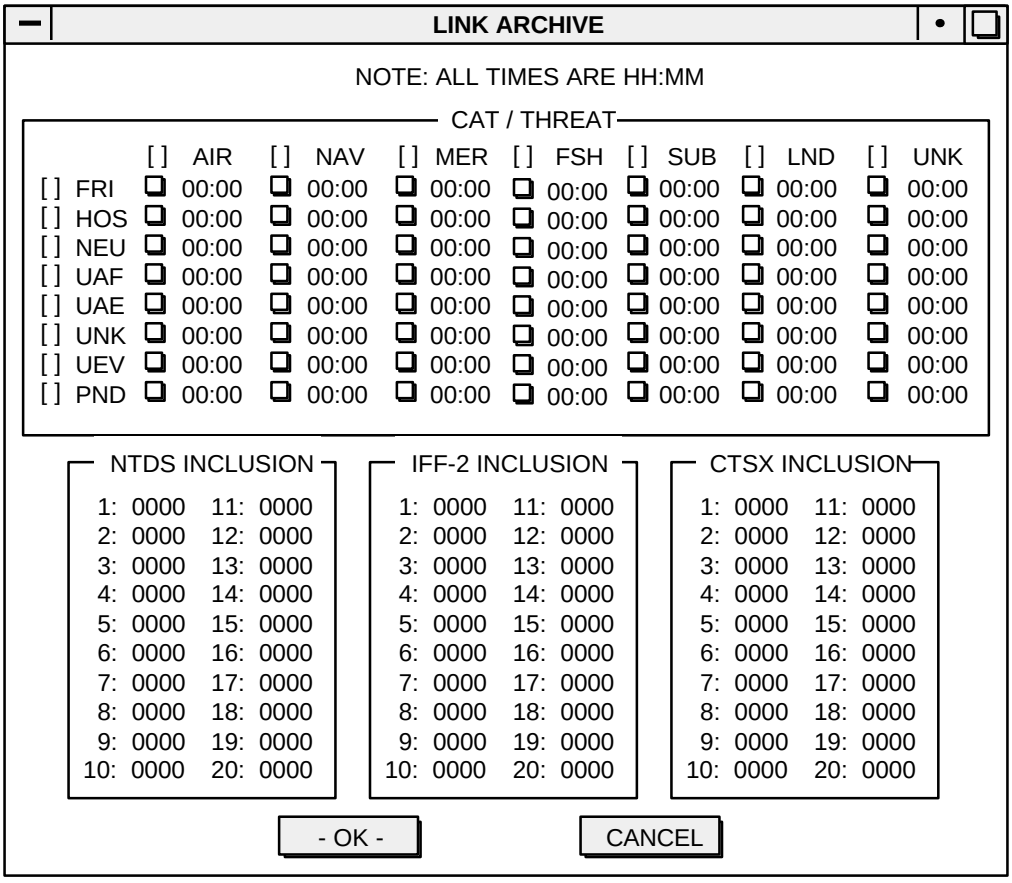

Figure 11.24-2 Link Archive Window

How to use the LINK ARCHIVE Window

1. For each of the categories in the CAT/THREAT box, click the checkbox to archive history reports only at specified time intervals. To select an entire column, click the column heading.
2. Enter the time period (HH:MM) that must elapse before a report is archived.
3. To archive reports for a specific track or tracks:
   - Enter the NTDS track numbers in the NTDS INCLUSION box.
   - Enter the track's PIF numbers in the IFF-2 INCLUSION box.
   - Enter the Link data provider's (e.g., ACDS, 2L11, C&D, etc.) internal track numbers in the CTSX INCLUSION box.
4. Enter the time periods that must elapse before the reports are archived for the chosen tracks in the time slots in the LINK ARCHIVE time boxes. For example, to archive reports for only one friendly ship every 15 minutes:

a. Enter the NTDS Track Number for that ship in one of the fields in the NTDS INCLUSION box.

b. Enter 00:15 in the NAV FRI time field of the LINK ARCHIVE time box *without* checking the NAV FRI checkbox.

5. Click OK to save entries, or click CANCEL to discard them.

LINK ARCHIVE Pop-Up Menu—Cat/Threat

In addition to the options described in *Summary of Common Operations* (OK, CANCEL, PRINT, ARCHIVE, and RESTORE), the LINK ARCHIVE pop-up menu also includes:

SET ALL

Use the SET ALL pop-up option to automatically set all the time values in the LINK ARCHIVE time box to a specified time.

Select SET ALL to open the LINK ARCHIVE SET ALL window (Figure 11.24-3).

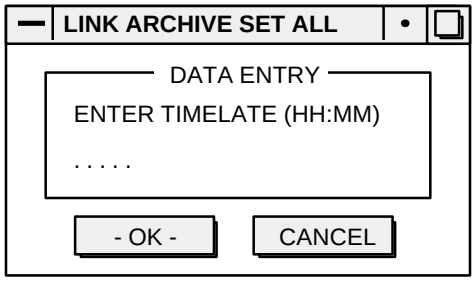

Figure 11.24-3 Link Archive Set All Window

How to set all time values:

1. Enter the time in the ENTER TIMELATE field (HH:MM).
2. Click OK to accept the entry, or CANCEL to discard it. Clicking either button returns to the LINK ARCHIVE window.
3. If OK is clicked, the time entered is displayed in every time field in the LINK ARCHIVE window. Note: Click the appropriate checkboxes to activate any or all fields.

11.24.2.2 Misc. Link11 Symbology—Link Archive Option

Select the MISC. LINK11 cascading menu option from the LINK ARCHIVE cascading menu (LINK CONTROLS option) to open the LINK ARCHIVE window for LINK11 (Figure 11.24-4).

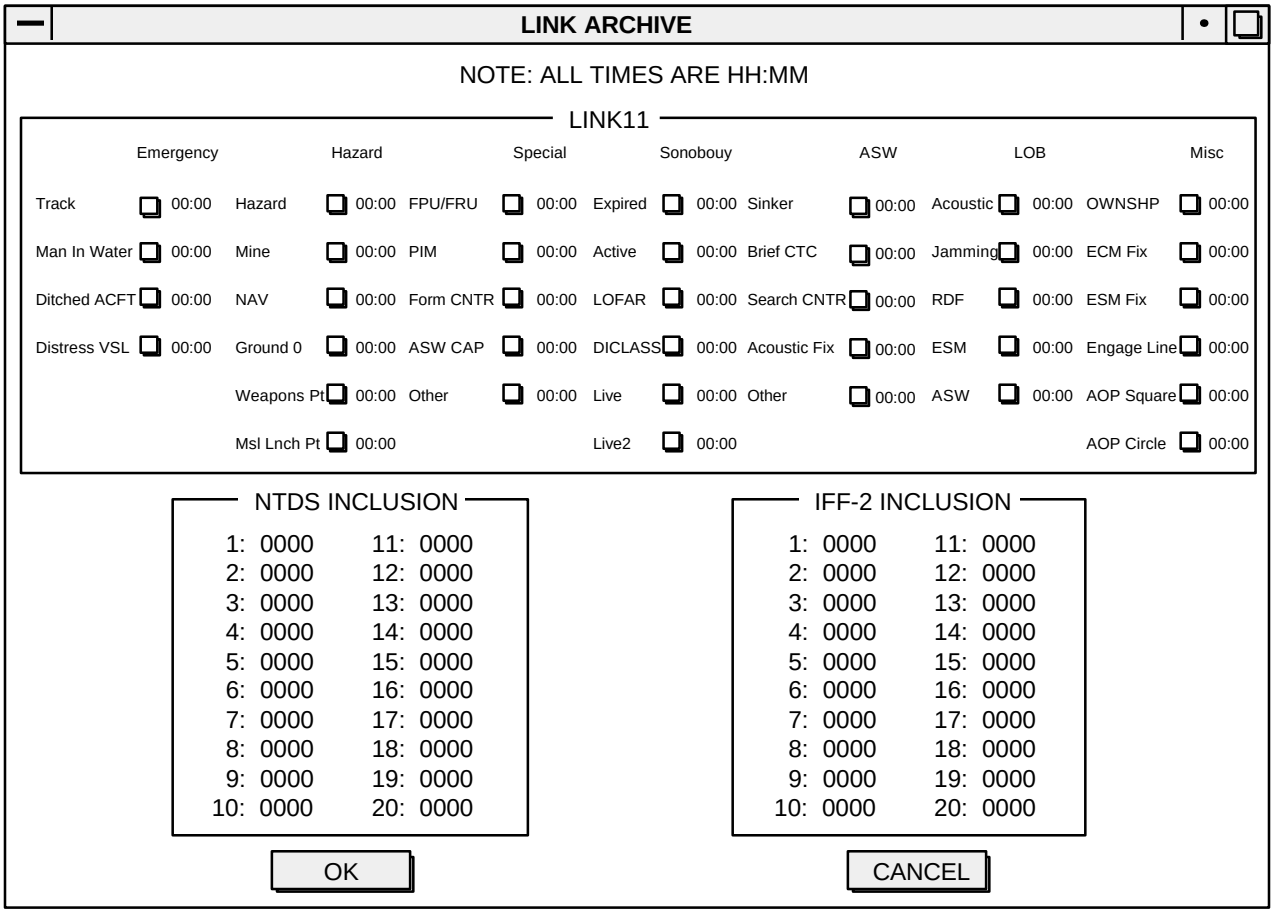

Figure 11.24-4 Link Archive Window—Link11 Symbology

How to use the LINK ARCHIVE Window for Misc. Link11

1. Click the appropriate checkbox to archive the specific Link-11 track types.
2. Enter the time interval to elapse after the last track update before the specified track type is automatically archived.
3. To specify a default time for *all* tracks, use the SET ALL pop-up option.

Note: See *Cat/Threat Symbology—Link Archive Option* for a more detailed description of the SET ALL pop-up option.

11.24.3 LINK AUTODELETE

The LINK AUTODELETE option is used to set times for the automatic delete feature for Link tracks and other special track types.

About the LINK AUTODELETE option

- When this option is activated, tracks are automatically deleted from the system when no new updates are received for a specified length of time.
- If Link tracks are associated with Platform tracks, the Link portion of the Platform track is deleted at autodelete time.
  - When the Link track returns, it is not automatically merged with the previous Platform track, *except* Ownship.
  - To delete the Link track for Ownship, the association must first be broken.

The LINK AUTODELETE option contains a cascading menu with CAT/THREAT and MISC. LINK11 options.

- CAT/THREAT—for ACDS/Link tracks that use cat/threat symbology.
- MISC. LINK11—for Link-11 tracks that use special Link-11 symbology.

11.24.3.1 Link Autodelete for Cat/Threat

Select the CAT/THREAT option from the LINK AUTODELETE cascading menu to open the Cat/Threat AUTO-DELETE TABLE window (Figure 11.24-5).

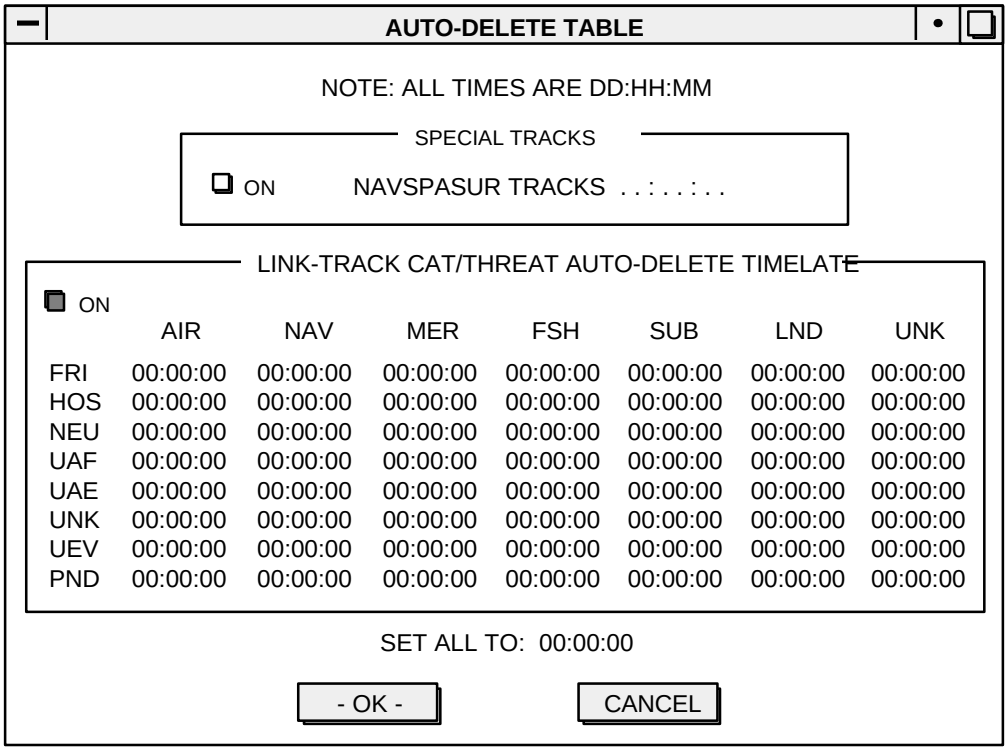

Figure 11.24-5 Auto-Delete Table Window

There are two boxes in this window:

- SPECIAL TRACKS box—set a time for automatic deletion of NAVSPASUR tracks.
- LINK-TRACK CAT/THREAT AUTO-DELETE TIMELATE box—set times for automatic deletion of Link tracks by threat/category.

To use the AUTO-DELETE option

1. Enter the amount of time (HH:MM) to elapse after the last track update before a specified track type is automatically deleted.
2. Enter a time value in the SET ALL field to specify a default time for *all* tracks.
3. Press the RETURN key for this value to take effect.
4. For the SPECIAL TRACKS box and the LINK-TRACK AUTO-DELETE TIMELATE box, click the ON checkbox to have the times entered take effect (or, leave the checkbox blank to turn this option off).
5. Click OK to save changes, or click CANCEL to discard them and exit the window.

11.24.3.2 Link Autodelete for Link-11

Select MISC. LINK11 from the LINK AUTODELETE cascading menu to open the Link-11 AUTO-DELETE TABLE window (Figure 11.24-6).

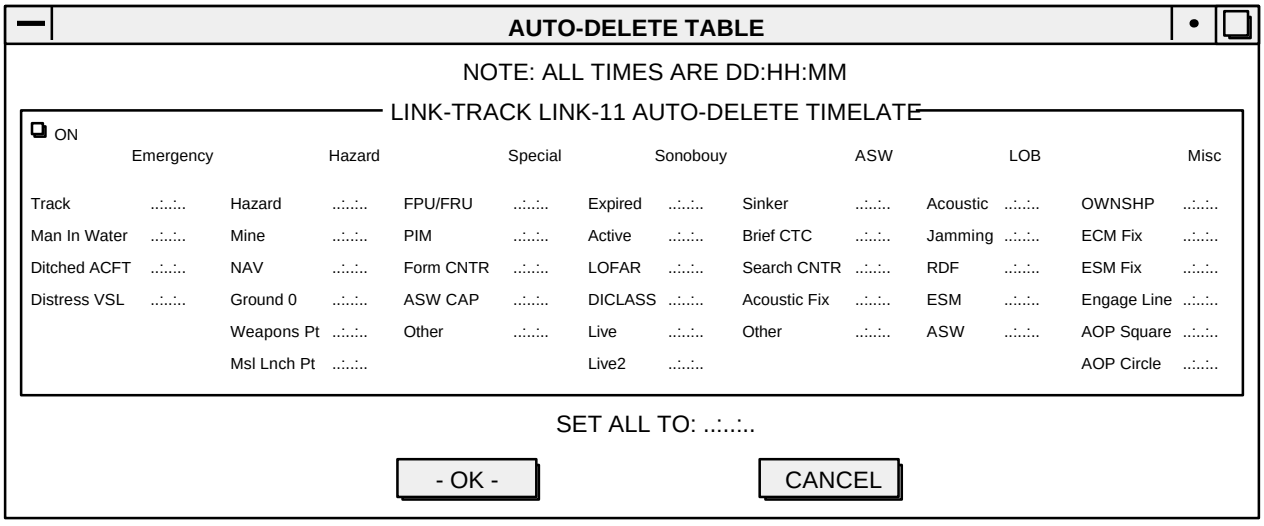

Figure 11.24-6 Auto-Delete Table Window

Note: For small monitors, this entire window does not appear. Scroll bars are available to view any items not visible.

How to use the AUTO-DELETE TABLE window:

1. Enter the amount of time to elapse after the last track update before a specified track type is automatically deleted.
2. Enter a time value in the SET ALL field to specify a default time for *all* tracks.
3. After entering a time in the SET ALL field, press the RETURN key for this value to take effect.
4. Click the ON checkbox to have the entered times take effect, or leave the checkbox blank to turn this option off.
5. Click OK to save changes, or click CANCEL to discard them and exit the window.

11.24.3.3 AUTO-DELETE TABLE Pop-Up Menu

Options available on the AUTO-DELETE TABLE pop-up menu (OK, ARCHIVE, RESTORE, PRINT, and CANCEL), perform as described in *Summary of Common Operations* .

11.24.4 LINK STATUS

Use the LINK STATUS option to:

- View the status of Link tracks in the system.
- View the number of Link tracks
- See detailed information about the tracks broken down by PU (Participating Unit).

Select LINK STATUS from the LINK CONTROLS cascading menu to open the LINK STATUS window (Figure 11.24-7).

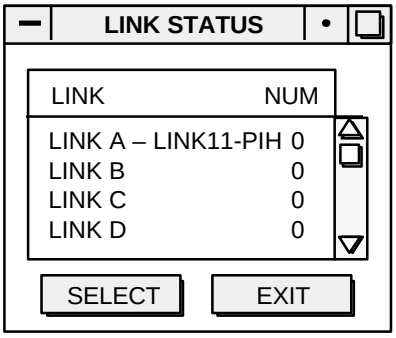

Figure 11.24-7 Link Status Window

The LINK STATUS window shows the total number (NUM) of Link tracks contained in each LINK communications network (A, B, C, and D) in the system.

Select a Link from the scroll list and click SELECT to open the LINK window (Figure 11.24-8) for the applicable network. Note: This example uses LINK A.

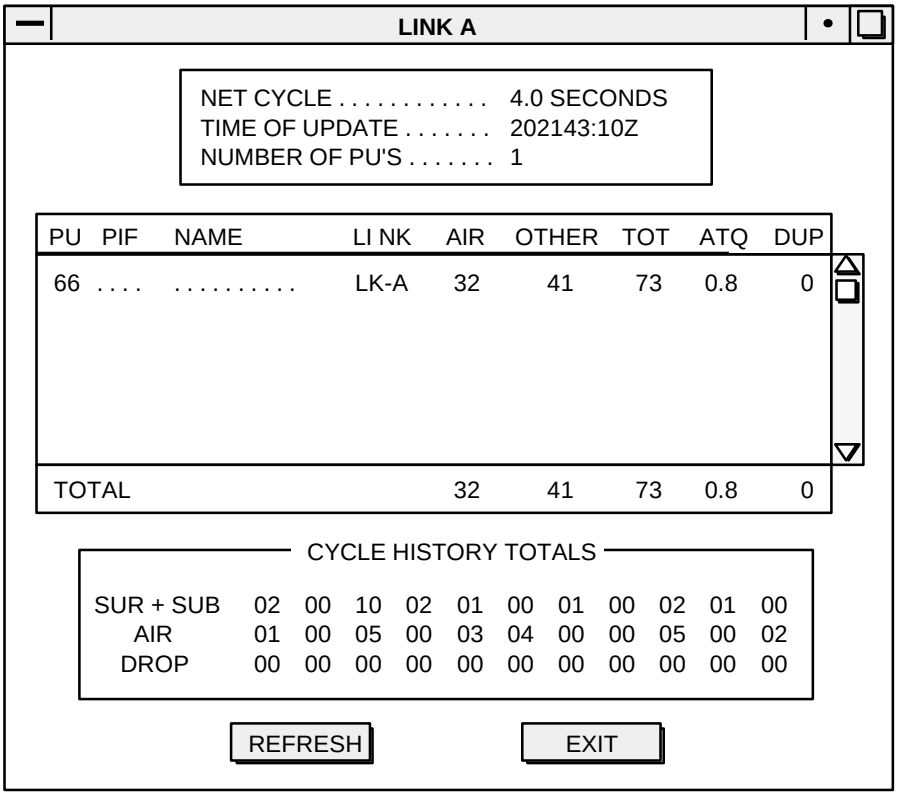

Figure 11.24-8 Link Window

LINK Window Fields

The LINK window contains information areas—general information box, scroll list, and a CYCLE HISTORY TOTALS box .

General Information Box:

NET CYCLE
Number of seconds between Link cycles. The amount of time that elapses before the next batch of Link updates take effect in the system.

TIME OF UPDATE
Time of the last Link update.

NUMBER OF PUs
Number of participating units (PUs) reporting Link information for the chosen Link communications network.

Scroll List:

For each of the PUs reporting on this Link communications network, the scroll list shows the following fields of information:

PU
PU number.

PIF
PIF number for the PU.

NAME
Name of the PU. A name appears in this column *only* if the Link track has been merged with an Intel track.

LINK
Name of the Link communications network that the PU is using to broadcast Link updates information.

AIR
Number of AIR tracks being reported by the PU.

OTHER
Number of non-AIR tracks being reported by the PU.

TOT
Total number of tracks being reported by the PU.

ATQ

Average Track Quality (ATQ) for the tracks being reported. For real-time tracks, track quality is a number between 1 and 7, with 7 being the best quality and 1 the worst. For non real-time tracks, the track quality is 0.

DUP

Number of duplicate tracks being reported. Duplicates occur when two different tracks with the same PIF number are being monitored.

Totals at the bottom of the scroll list represent totals for all PUs:

- AIR—number of AIR tracks.
- OTHER—number of non-AIR tracks.
- TOT—total number of tracks.
- ATQ—average track quality for all tracks in this Link.
- DUP—number of duplicates for this Link.

CYCLE HISTORY TOTALS Box:

- Eleven columns of numbers represent the number of tracks being reported for the last eleven Link cycles.
- For each Link cycle, this box displays:
  - number of SUR + SUB tracks reported
  - number of AIR tracks reported
  - number of tracks that were dropped (no longer being reported)
- The far left column shows numbers for the most recent Link cycle. The next column to the right shows the numbers for the previous Link cycle—and so on.
- Information in the Link window automatically updates whenever a new net cycle time occurs.
  - For example, if the NET CYCLE is set to 20.0 seconds, an update occurs every 20 seconds.
  - To view up-to-date information sooner, click REFRESH.

To view individual track information for a particular PU, double-click the PU line of interest in the scroll list. The PU window appears (Figure 11.24-9).

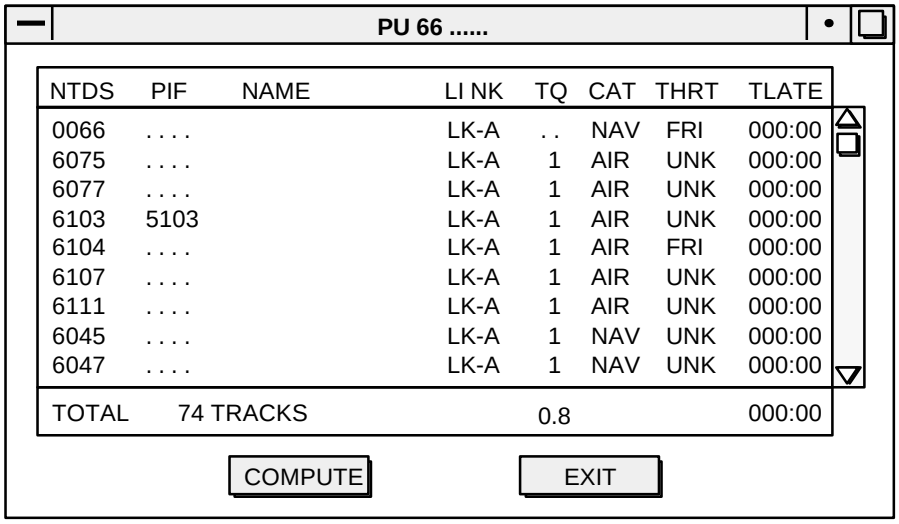

Figure 11.24-9 PU Window

PU Window Buttons:

COMPUTE—click to reflect new, incoming information.

EXIT—close the window and exit the LINK STATUS option.

PU Window Fields

The PU window lists the following fields of information for each track reported by the selected PU:

NTDS
NTDS track number for the track.

PIF
Pseudo Identification Feature (PIF) number; a four digit code that provides an exact ID for the ship or aircraft. Friendly military only.

NAME
Name of the track. A name appears *only* if the track has been merged with an Intel track.

LINK
Name of the Link communications network being used.

TQ
Track quality number for the track.

Real-time tracks—track quality is numbered between 1 and 7, with 7 being the best quality and 1 the worst.

Non real-time tracks—the track quality is 0. Track quality represents the quality of the radar hit on the track.

CAT
Category code for the track.

THRT
Threat code for the track.

TLATE
Amount of elapsed time since the track was last updated.

TOTAL Information Area:

Some totals appear at the bottom of the scroll list:

- total number of tracks being reported by the PU
- average track quality
- average timelate

11.24.5 LINK FILTER

Use the LINK FILTER option to discard Link and ACDS tracks, based on track category and threat.

When a Link filter is set for a cat/threat type:

- Tracks entering the system that meet the chosen filter criteria are not plotted on the tactical display.
- "Filtered" tracks are not stored anywhere within the system.

The LINK FILTER option contains a cascading menu with CAT/THREAT and MISC. LINK11 options.

- CAT/THREAT—set Link filters for ACDS/Link tracks that use cat/threat symbology.
- MISC. Link-11—set Link filters for Link-11 tracks that use special Link-11 symbology.

11.24.5.1 Link Filters for Cat/Threat

Select the CAT/THREAT option from the LINK FILTER cascading menu to open the Cat/Threat EXCLUSION FILTERS window (Figure 11.24-10).

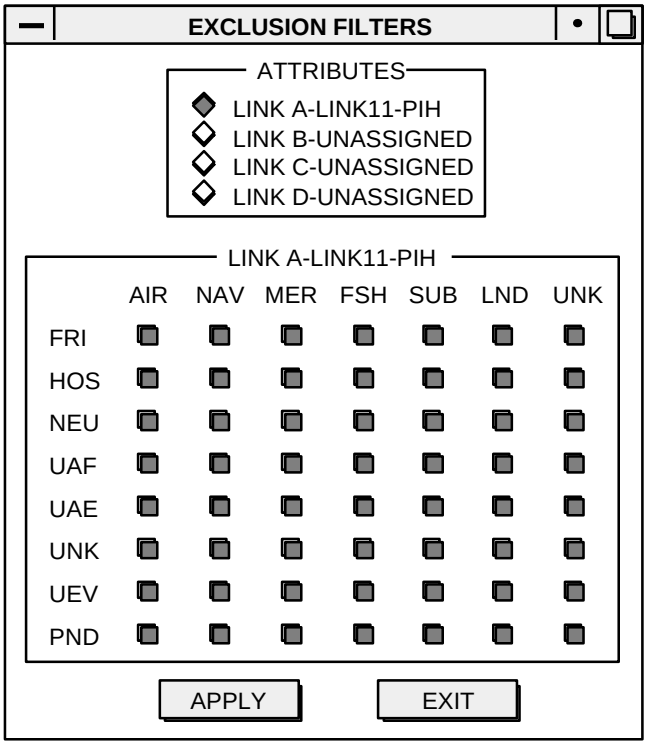

Figure 11.24-10 Cat/Threat Exclusion Filters Window

The EXCLUSION FILTERS window contains a top box (ATTRIBUTES) and a bottom box whose title changes—depending on which diamond knob is selected in the ATTRIBUTES box.

How to use the Cat/Threat EXCLUSION FILTERS window:

1. Click the applicable diamond knob in the ATTRIBUTES box for the Link communications network.
2. Toggle ON the associated checkboxes for each Link threat/category type to discard.
   - For example, if the FRI/AIR checkbox in toggled ON, friendly air tracks will not appear on the tactical display for the selected Link.
3. Click a column heading label to turn ON all the checkboxes in that column.
4. Similarly, click a row label to turn ON all the checkboxes in that row.
5. Click APPLY to accept changes, or click EXIT to discard them. After clicking APPLY to accept changes, click EXIT to leave this option.

11.24.5.2 Link Filters for Misc. Link-11

Select the MISC LINK11 option from the LINK FILTER cascading menu to open the Link-11 EXCLUSION FILTERS window (Figure 11.24-11).

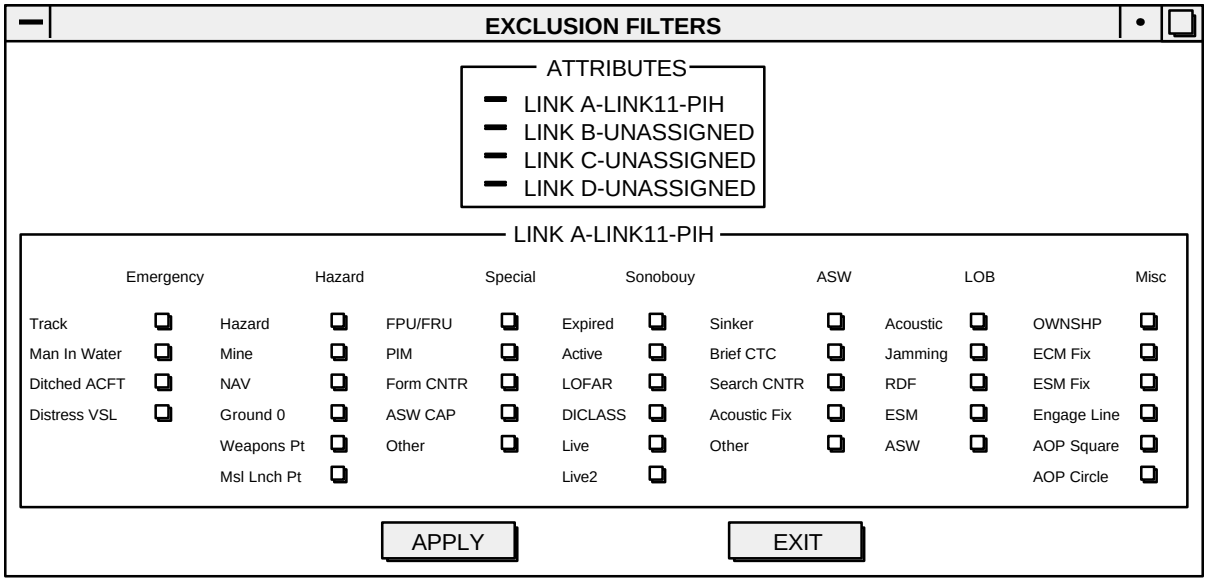

Figure 11.24-11 Link-11 Exclusion Filters Window

The EXCLUSION FILTERS window contains a top box (ATTRIBUTES) and a bottom box whose title changes—depending on which diamond knob is selected in the ATTRIBUTES box.

How to use the Link11 EXCLUSION FILTERS window:

1. Click the applicable diamond knob in the ATTRIBUTES box for the Link communications network.
2. Toggle ON the associated checkboxes for each Link threat/category type to discard.
   - For example, if the LOB/RDF checkbox is toggled ON, LOB/RDF tracks will not appear on the tactical display for the selected Link.
3. Click a column heading label to turn ON all the checkboxes in that column.
4. Similarly, click a row label to turn ON all the checkboxes in that row.
5. Click APPLY to accept changes, or click EXIT to discard them and leave this option.

Note: For small monitors, this entire window does not appear. Scroll bars are available to view any items not visible.

11.25 TRACK POP-UP MENU

Use the "track pop-up menu" to perform functions on individual tracks. Several options (SELECTED SUMMARY, SPEED LEADER, AOU, 10-PT. HISTORY, CUSTOM HISTORY, DEAD RECKON, DR TRAILER, and MTST HISTORY) affect not only the initially selected track, but also all other selected tracks on the tactical display.

To access the track's pop-up menu:

1. Place the pointer on a track.
2. Hold down the right trackball button to open a pop-up menu for the track.
3. While holding down the trackball button, move the pointer on top of a menu option.
4. Release the trackball button to access the selected option.

The pop-up menu provides the following options for track manipulation:

(TITLE)
Shows the track name and the number of reports received on the track.

QUICK REPORT
Create an abbreviated new report on the track.

SELECTED SUMMARY
Display a summary of information for the selected tracks.

XMIT
Transmit the track to a remote site in a GOLD message.

NU TRACK
Convert an ambiguity to a track.

COPY
Make a duplicate copy of the track.

DELETE
Delete the track.

NIPS UPDATE
If connected directly to NIPS, accesses the NIPS CDBS.

TRACK CONTROL
Set plot control options for the track which override default settings.

RANGE CIRCLES
Specify and plot circles around the track.

TRACK TO PIM
Turn the history points for a track into a PIM track.

SPEED LEADER
Set the display status for the track's speed leader .

AOU
Set the display status for the track's AOU.

10-PT. HISTORY
Set the display status for plotting track history reports.

CUSTOM HISTORY
Display user-selected information for each history point.

DEAD RECKON
Set the display status for the track's dead reckoned position.

DR TRAILER
Set the display status for the track's DR trailer .

MTST HISTORY
Set the display status for plotting the an MTST history.

11.25.1 TITLE

The first line in the TRACK pop-up menu shows the name of the selected track and the number of reports received for the track. For example: T4027 : 11.

11.25.2 QUICK REPORT

Use the QUICK REPORT option to enter an abbreviated report for the track.

1. Select the QUICK REPORT track-menu option.
2. Select the type of report (POSIT, LOB, or BRG BOX) from the TYPE window.
3. Enter data in the QUICK REPORT window.
   - This window is similar to the ENTER FIRST REPORT window.
   - Fields in the window depend on (a) the type of track being updated and (b) which report type button was selected.
   - See the NEW TRACK option from the TRACKS pull-down menu for more information about the fields in this window.

11.25.3 SELECTED SUMMARY

Use the SELECTED SUMMARY option to display a summary of information for a track or a selected group of tracks (Figure 11.25-1).

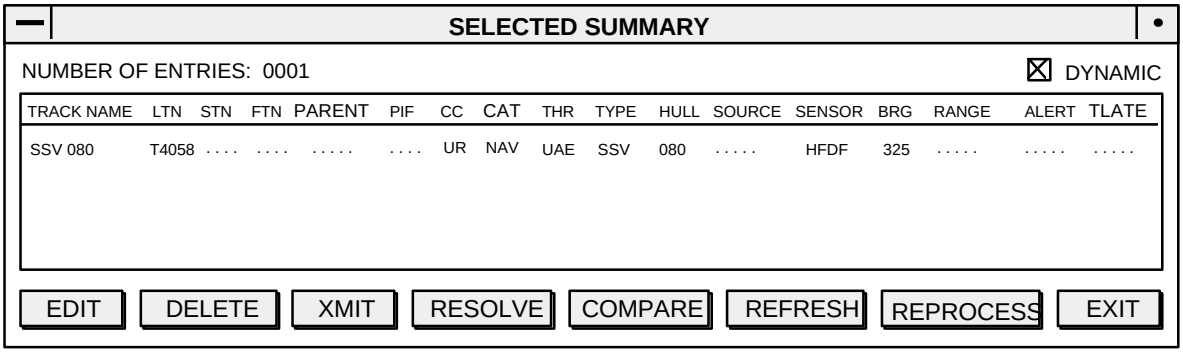

Figure 11.25-1 Selected Summary Window

The SELECTED SUMMARY window is the same as the TRACK SUMMARY window, with the following exception:

DYNAMIC (checkbox)

Allows another track to be added to the window without "regrouping" the previous tracks selected.

For example, if three tracks are selected from the display and a fourth needs to be added later, click on the "new" tracks symbol to add it to the SELECTED SUMMARY window. This feature allows the user to closely monitor information on a particular group of tracks.

Information on tracks shown in this window is continually updated.

See the TRACK SUMMARIES option (TRACKS pull-down menu) for more information about the fields and buttons in this window.

11.25.4 XMIT

Use the XMIT option to transmit the track to other sites.

- Only Platform and Unit tracks, with a scope of OTH, may be transmitted. Ambiguities cannot be transmitted.
- The most recent track report is sent, including track attribute information.
- Track history can be sent; the number of history reports is operator specified.
- Messages are sent in GOLD format, over one or more operator-specified comms channels.

This option works the same as the XMIT option from the TRACKS pull-down menu.

11.25.5 NU TRACK

Use the NU TRACK option to create a new track out of an ambiguity.

- This option is available only if the selected track is an ambiguity.
- Track Numbers change from numbers preceded by an "A" (ambiguity) to numbers preceded by a "U" (unit track).

11.25.6 COPY

Use the COPY option to create a duplicate copy of an existing track. This option works the same as the COPY option in the TRACKS pull-down menu.

11.25.7 DELETE

Use the DELETE option to remove the selected track from the system. This option works the same as the DELETE option from the TRACKS pull-down menu.

Note: This option cannot be used for tracks with a value of HIT or TGT in the ALERT field of the EDIT window.

11.25.8 NIPS UPDATE

Note: The NIPS UPDATE option is available only on UB workstations that are connected directly to the NIPS Central Database Server.

About the NIPS UPDATE option

- Use the NIPS UPDATE option to access the Navy Intelligence Processing System (NIPS) Central Database Server (CDBS) for additional information about the selected track.
- The NIPS CDBS is a central database server for the entire NTCS Afloat system.
- NIPS provides UB with additional information about a selected track—UB also provides updated information to NIPS.
- The NIPS UPDATE option associates a selected UB track with a NIPS data element.
    - The selected track *must* be a land unit, and its type must be either EMITTER/ELINT or PLATFORM.

- If the type is PLATFORM, the track must have one or more ELNOT associations.

Select a track from the tactical display and choose NIPS UPDATE from the TRACK pop-up menu to open the NIPS CANDIDATES window (Figure 11.25-2).

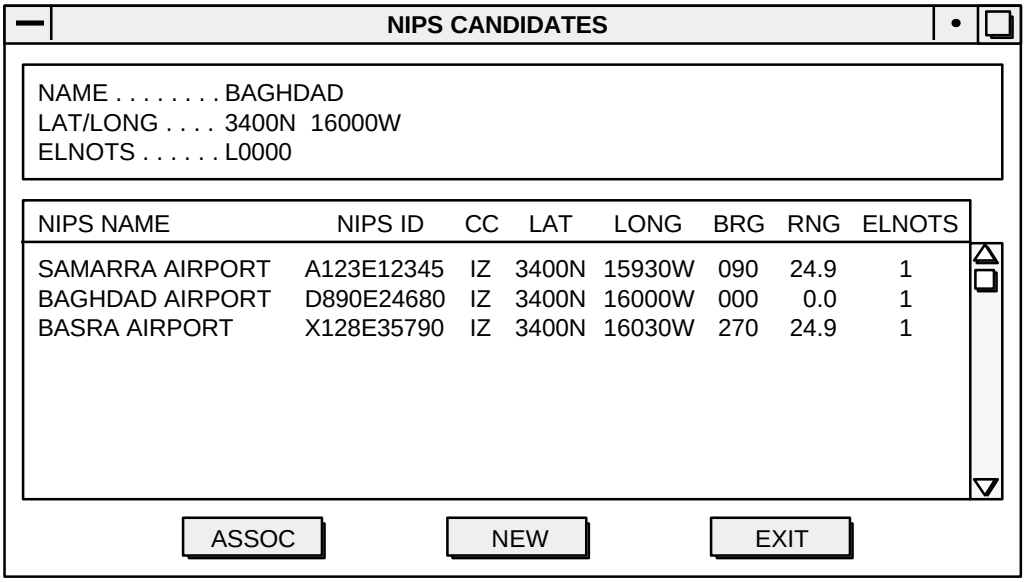

Figure 11.25-2 NIPS Candidates Window

NIPS CANDIDATES Window Buttons

ASSOC—the selected UB track with a NIPS data element.

1. Select the NIPS data element from the NIPS CANDIDATES window.
2. Click ASSOC.
   a. NIPS updates the following track attributes for the UB track: TRACK NAME, FLAG, SCONUM, and BE NUMBER.
   b. UB automatically sends the latest reported information on the track and its emitter tracks to NIPS—using the BE number and category as the NIPS key.
3. When an association takes place, the NIPS UPDATE option is automatically exited.

NEW—create a new NIPS data element for the selected track. If there are no NIPS candidates (or to not associate the UB track to any of the current NIPS candidates):

1. Click NEW to generate a new land track data element in NIPS for the UB track.

2. The land track is assigned a unique land track ID with a “J” prefix.
3. The latest reported information on the UB track and its emitter tracks is sent to NIPS using the LAND TRACK ID as the NIPS key.
4. When a new NIPS data element is created, the NIPS UPDATE option is automatically exited.

EXIT—exit the NIPS UPDATE option without creating a NIPS association.

NIPS CANDIDATES Window Fields

NAME
Name of the track.

LAT/LONG
Position of the track, as last reported.

ELNOTS
List of all associated ELNOTs for the track in the UB track database.

Scroll List

Lists the candidates contained in the NIPS database for the selected track. Candidates are determined based on:

- BE number (if available)
- SCONUM (if available and BE is not)
- Country Code (if available)
- ELINT notation (ELNOT)
- Rough geofeasibility (a 25 NM cookie cutter around the last contact report for the track).

The following fields of information are shown for each candidate:

NIPS NAME
Name of the NIPS data element in the NIPS database.

NIPS ID
NIPS data element’s land track ID, site ID, or BE number. The SCONUM is used to match the last five characters of the BE number in NIPS.

CC
Country code of the NIPS data element.

LAT
Latitude of the NIPS data element.

LONG
Longitude of the NIPS data element.

BRG
Bearing from the NIPS data element to the UB track.

RNG
Range from the NIPS data element to the UB track.

ELNOTS
Number of associated ELNOTs for the NIPS data element.

11.25.8.1 View Additional Information for a NIPS Candidate

Double-click a candidate to open the AMPLIFY NIPS CANDIDATE window (Figure 11.25-3).

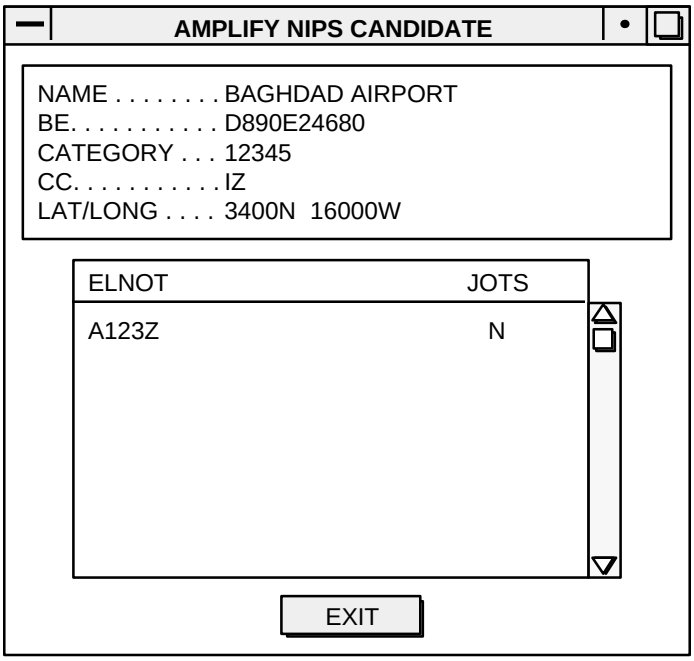

Figure 11.25-3 Amplify NIPS Candidate Window

The AMPLIFY NIPS CANDIDATE window contains general information about the NIPS data element and a scroll list with all the associated ELNOTs.

AMPLIFY NIPS CANDIDATE Window Fields

NAME
Name of the NIPS data element.

BE
BE number for the NIPS data element.

CATEGORY
Category code or FUNCL code of the NIPS data element.

CC
Country code of the NIPS data element.

LAT/LONG
Position of the NIPS data element.

Scroll List

Contains the following fields to describe the ELNOTs associated with the NIPS data element:

ELNOT
ELINT notation. This five digit field begins with an alpha character, followed by three numbers, ending with another alpha character.

JOTS
Shows a Y if the ELNOT is associated with the selected UB track or an N if not.

11.25.9 TRACK CONTROL

The TRACK CONTROL option allows an operator to specify plotting and symbol annotation of tracks on an individual basis.

Default settings, set by options on the PLOT CONTROL pull-down menu, can be overridden for individual tracks.

Select a track from the display, then select TRACK CONTROL from the TRACK pop-up menu to open the TRACK CONTROL window (Figure 11.25-4).

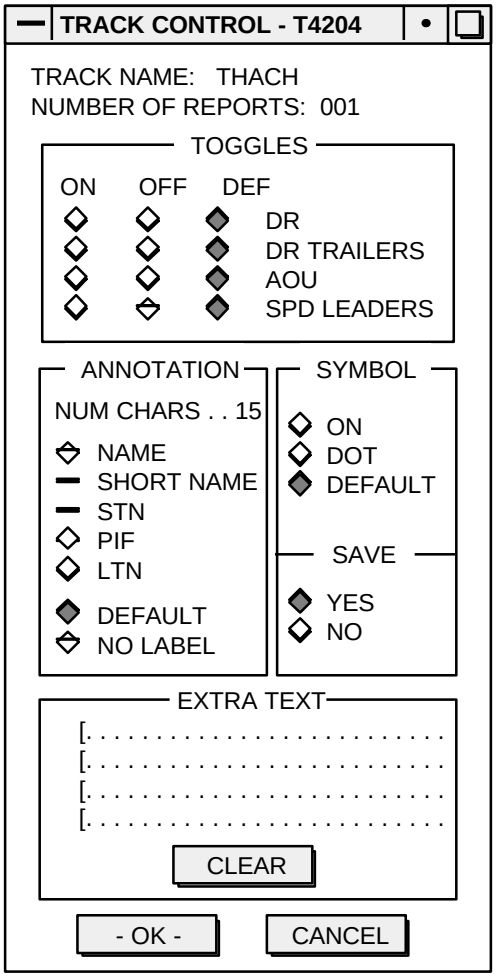

Figure 11.25-4 Track Control Window

The TRACK CONTROL window shows the name and the number of reports received for the track.

TRACK CONTROL Window Fields

TOGGLES Box

Use the diamond knobs to override the track display settings for DR (dead reckoning), DR TRAILERS, AOU (areas of uncertainty), and SPD LEADERS (speed leaders) for the selected track. Settings entered here override the default settings entered with the ATTRIBUTE TOGGLES option. Click the following diamond knobs for the selected track:

ON

Turn ON the option for the selected track, regardless of default settings.

OFF
Turn OFF the option for the selected track, regardless of default settings.

DEF
Use the default setting for the option.

SYMBOL Box

Click the appropriate diamond knob to specify how the track symbol should be plotted:

ON
Plotted on the tactical display.

DOT
Plotted as a dot on the display.

DEFAULT
Toggle ON to use the track's default symbol setting.

SAVE Box

YES
Save the symbol settings.

NO
Ignore the symbol settings.

ANNOTATION Box

The number of characters and label type chosen with this option overrides the default settings entered with the SYMBOL LABELS option.

NUM CHARS
Enter the maximum number of characters to display for the text label.

NAME
Name of the track.

SHORT NAME
Name for the track that meaningful only within the local network. This name is not transmitted to other locations.

STN
System track number. This is also known as the Naval Tactical Display System (NTDS) track number.

PIF
Code that provides an exact ID for the ship or aircraft. PIF (also known as Mode 2 IFF) is for friendly military only.

LTN
Local UB track number. This number is used internally by the system for track identification.

DEFAULT
Use the default label type entered with the SYMBOL LABELS option.

NO LABEL
The track is not labeled.

EXTRA TEXT Box

Enter up to four lines of text to appear next to the track on the tactical display.

CLEAR
Remove all the text in the EXTRA TEXT box.

OK—accept changes, or click CANCEL to discard them. If OK is clicked, any changes made to the track symbol or label appear on the tactical display.

11.25.10 RANGE CIRCLES

Use the RANGE CIRCLES option from the TRACK pop-up menu to plot range circles around the selected track.

For example, the RANGE CIRCLES option can be applied to show weapons ranges and sensor ranges around naval combatants or military aircraft.

Select RANGE CIRCLES from the TRACK pop-up menu to open the RANGE CIRCLES window (Figure 11.25-5).

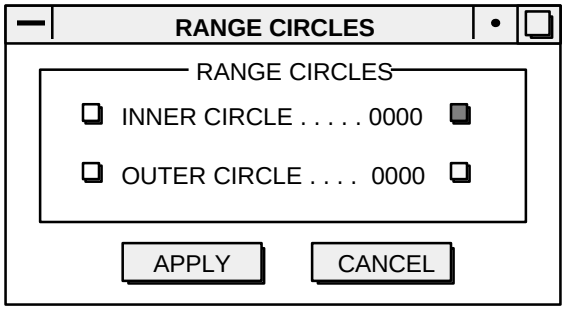

Figure 11.25-5 Range Circles Window

Use the RANGE CIRCLES window to specify the radius and color of the two range circles, and to turn this option ON or OFF.

How to use the RANGE CIRCLES option:

1. Enter radius values (in NM) for the inner and outer circles for the selected track.
2. Click the appropriate color box to open a LIST window with color choices.
3. Click the checkbox in front of either range circle setting to turn ON that range circle.
4. Click APPLY to accept the entries, or CANCEL to discard them.
5. Range circles appear around the track after APPLY has been clicked.

11.25.11 TRACK TO PIM

The TRACK TO PIM option provides a way to convert the history points for a track into a PIM track.

1. Select the TRACK TO PIM option.
2. The PIMTRACKS window opens with the name of the selected track listed as an inactive PIM track.
3. If activated, this PIM track will appear on the display with PIM track legs extending between the history points of the track.
4. Use the PIMTRACKS options to make any changes to the new PIM track. (Refer to the PIMTRACKS option in the SUPPORT TDA'S chapter for detailed information.)

11.25.12 SPEED LEADER

Use the SPEED LEADER option to turn ON or turn OFF the plotting of speed leaders for the selected track—and all other tracks selected on the display. This option overrides the default speed leader setting entered with the ATTRIBUTE TOGGLES option.

About the SPEED LEADER option

- When this option is viewed on the menu, either ON or OFF is listed after the SPEED LEADER menu name.
- When this option is selected, the current speed leader setting changes to the opposite setting for the selected track.

- If other tracks are selected on the tactical display, their speed leader setting either changes or stays the same to match the new setting for the selected track.

11.25.13 AOU

Use the AOU option to turn ON or turn OFF AOU plotting for the selected track—and all other tracks selected on the display when this option is used. This option overrides the default AOU setting entered with the ATTRIBUTE TOGGLES option.

About the AOU option

- When this option is viewed on the menu, either ON or OFF is listed after the AOU menu name.
- When this option is selected, the current AOU setting changes to the opposite setting for the selected track.
- If other tracks are selected on the tactical display, their AOU setting either changes or stays the same to match the new setting for the selected track.

11.25.14 10-PT. HISTORY

Display a history plot for the track by using the 10-PT. HISTORY option from the TRACK pop-up menu. The history plot shows a line on the tactical display that connects the points for the last 10 history reports for the track. If there are less than 10 reports in the system, all history points are plotted.

About the 10-PT HISTORY option

- When viewing this option on the menu, either ON or OFF is listed after the 10-PT HISTORY menu name.
- When this option is selected, the current history plot setting changes to the opposite setting for the selected track.
- If other tracks are selected on the display when this option is used, their history plot setting either changes or stays the same to match the new setting for the selected track.

Figure 11.25-6 shows an example of a history plot for a sample track.

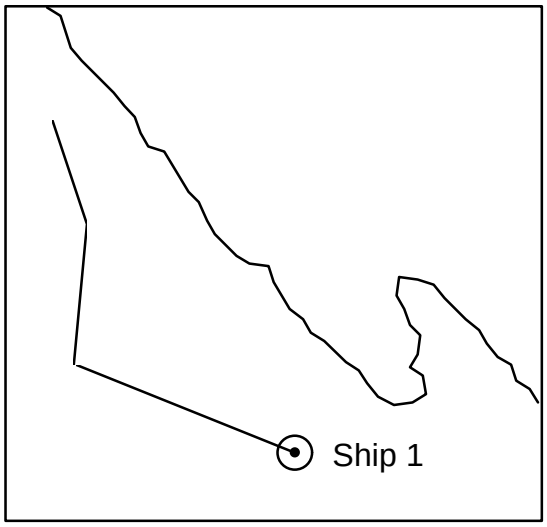

Figure 11.25-6 A History Plot Example

11.25.15 CUSTOM HISTORY

Use the CUSTOM HISTORY option to display track history points for one or more selected tracks with user-specified information for each point.

Select one or more tracks on the display and choose CUSTOM HISTORY from the track pop-up menu.

- If one track was selected, the CUSTOM HISTORY window opens (Figure 11.25-7).
- If more than one track was selected, a SELECT TRACKS TO PLOT HISTORY window opens.
  - Highlight one or more tracks in the scroll list.
  - Click OK to open CUSTOM HISTORY window.

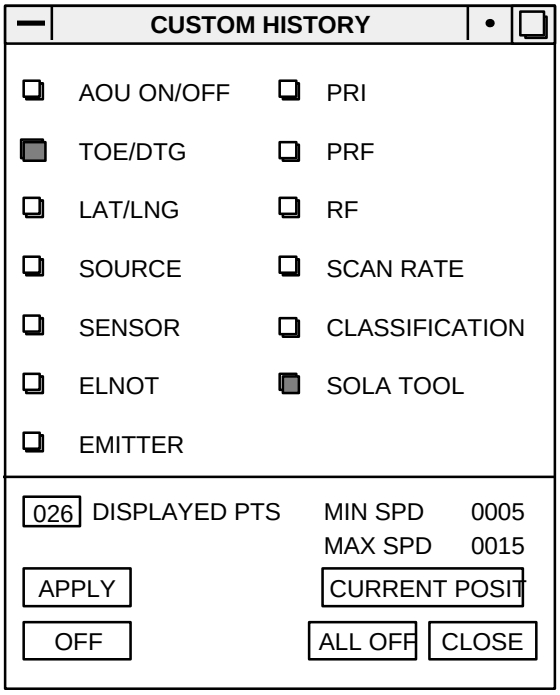

Figure 11.25-7 Custom History Window

How to use the CUSTOM HISTORY option:

To turn ON the display of custom history information (for selected tracks only):

1. Toggle checkboxes ON to choose the information plotted with each track's history.
2. Set the maximum number of points for each track in the DISPLAYED PTS field.
3. If the SOLA TOOL is toggled ON, set the minimum and maximum speeds. The segment colors indicate the track's relative speed compared to these values (described in *SOLA Tool*).
   - White— within set range.
   - Red—exceeds maximum speed.
   - Green—slower than minimum speed.
4. Click APPLY to show information with each history point, or click CURRENT POSIT to display only the current position with its information.
   - Selected information appears to the left of each point.
   - Track symbol label remains plotted to the right of the current position.

- Selected information unavailable for a track is shown as / / /.

5. Click CLOSE to close the window and exit the option.

Turn OFF the custom history in one of two ways:

- Click OFF to remove history points and information for currently selected tracks only.
- Click ALL OFF to remove history points and information for all tracks.

CUSTOM HISTORY Window Fields

Settings are retained when the window is closed, and will appear toggled ON when the window is reopened. All checkboxes reset to OFF *only* when JMCIS is restarted.

AOU ON/OFF
Area of uncertainty—toggle either ON or OFF.

TOE/DTG
Date and time of track observation.

LAT/LNG
Latitude and longitude.

SOURCE
Two-letter OTCIXS station source code (for example, AM=America). Letters are taken from the Source XREF Table, which can be viewed from the SOURCE XREF TABLE option (MISC menu); can also be used to show a 6-character, alphanumeric entry for the reporting source or system. (Examples: CASREP, MOVREP, Wizard.)

SENSOR
Sensor type used to detect the track at its last reported position.

ELNOT
An acronym for ELINT Notation, the electronic emitter code assigned to a radar by the detecting sensor.

This five digit field begins with an alpha character, followed by three numbers, ending with another alpha character.

EMITTER
Radar name (for example, RAY1500, SPN-43, HEADNET).

PRI
Pulse repetition interval, measured in microseconds. (ELINT tracks only.)

RF
Radio frequency, measured in megahertz (MHZ). (ELINT tracks only.)

SCAN RATE
Scan rate, measured in seconds per rotation (SPR). (ELINT tracks only.)

CLASSIFICATION
Classification level. (Not currently implemented.)

SOLA TOOL
Speed of Logical Advance. (Described in *SOLA Tool.*)

DISPLAYED PTS
Maximum number of points displayed for each track.

MIN SPD
Minimum speed, in KTS (for SOLA tool).

MAX SPD
Maximum speed, in KTS (for SOLA tool).

11.25.15.1 SOLA Tool

The Speed of Logical Advance (SOLA) tool is used to detect tracks with abnormal speeds. For example, the SOLA tool can be used to identify ships or aircraft moving too slow or too fast to be consistent with commercial traffic.

How to use the SOLA Tool:

1. In the CUSTOM HISTORY window, toggle the SOLA checkbox ON.
2. Enter values in MIN SPD and MAX SPD fields (default values are 5 and 15 KTS).
3. Click APPLY.
4. Speed for each segment will be displayed in colors that indicate the relative speed of the track for that segment (Figure 11.25-8).
   - White—within the range set.
   - Green—slower than the minimum speed set.
   - Red—exceeds the maximum speed set.

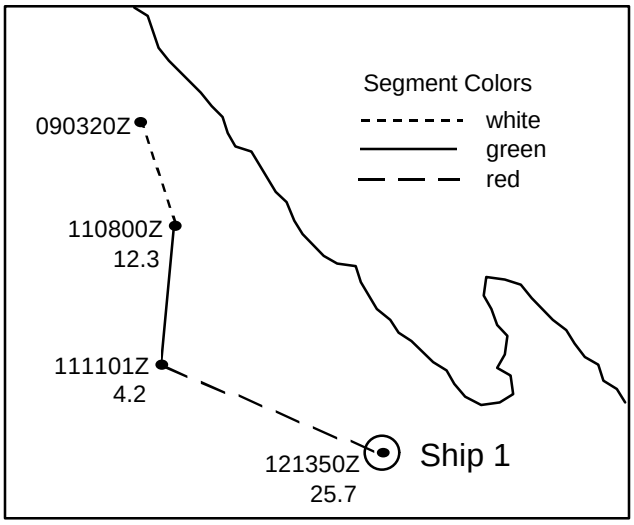

Figure 11.25-8 Custom History Display with TOE/DTG and SOLA Selected.

11.25.16 DEAD RECKON

Use the DEAD RECKON option to turn on or turn off Dead Reckoning (DR) for the selected track—and all other tracks that are selected on the tactical display when this option is used. This option overrides the default DR setting entered with the ATTRIBUTE TOGGLES option.

About the DEAD RECKON option

- When viewing this option on the menu, either ON or OFF is listed after the DEAD RECKON menu name.
- When this option is selected, the current DEAD RECKON setting changes to the opposite setting for the selected track.
- If any other tracks are selected on the display when this option is used, their DEAD RECKON setting either changes or stays the same to match the new setting for the selected track.

11.25.17 DR TRAILERS

Use the DR TRAILERS option to turn on or turn off the plotting of DR Trailers for the selected track—and all other tracks that are selected on the tactical display when this option is used. This option overrides the default DR Trailer setting entered with the ATTRIBUTE TOGGLES option.

About the DR TRAILERS option

- When viewing this option on the menu, either ON or OFF is listed after the DR TRAILERS menu name.

- When this option is selected, the current DR Trailer setting changes to the opposite setting for the selected track.
- If any other tracks are selected on the display when this option is used, their DR Trailer setting either changes or stays the same to match the new setting for the selected track.

11.25.18 MTST HISTORY

The MTST history plots dots on the screen for the calculated MTST history points and shows lines connecting these points from the starting point to the current track position. Use the MTST HISTORY option to turn ON or OFF the MTST history plot for the selected track and all other tracks that are selected on the tactical display when this option is used.

About the MTST HISTORY option

- When viewing this option on the menu, either ON or OFF is listed after the MTST HISTORY menu name.
- When this option is selected, the current MTST history plot setting changes to the opposite setting for the selected track.
- If any other tracks are selected on the display when this option is used, their MTST history plot setting either changes or stays the same to match the new setting for the selected track.

Figure 11.25-8 shows an example of an MTST history plot for a sample track.

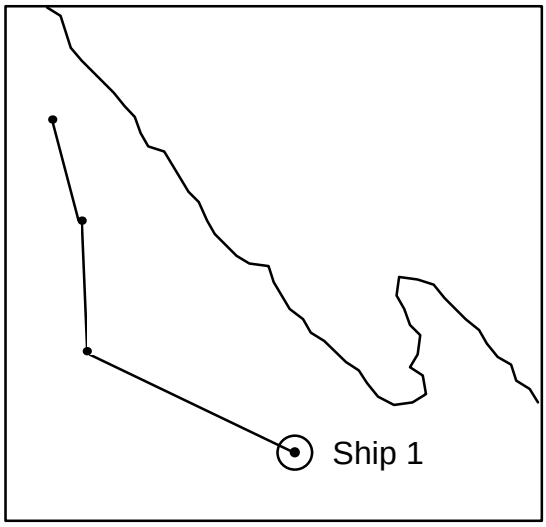

Figure 11.25-8 An MTST History Plot Example

Notes

Notes